Form PTO 948 (Rev. 8-98)   U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office   Application No. _9/297,703_

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW

The drawing(s) filed (insert date) _7-19-99_ are:

A. ☐ approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. ☑ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be sumitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
   Black ink. Color.
   ____ Color drawings are not acceptable until petiton is granted.
   Fig(s) _____
   ____ Pencil and non black ink not permitted. Fig(s) _____
2. PHOTOGRAPHS. 37 CFR 1.84 (b)
   ____ 1 full-tone set is required. Fig(s) _____
   ____ Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s) _____
   ____ Poor quality (half-tone). Fig(s) _____
3. TYPE OF PAPER. 37 CFR 1.84(e)
   ____ Paper not flexible, strong, white, and durable.
   Fig(s) _____
   ____ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) _____
   ____ Mylar, velum paper is not acceptable (too thin).
   Fig(s) _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
   ____ 21.0 cm by 29.7 cm (DIN size A4)
   ____ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
   ____ All drawing sheets not the same size.
   Sheet(s) _____
   ____ Drawings sheets not an acceptable size. Fig(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:

   Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm
   SIZE: A4 Size
   Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
   SIZE: 8 1/2 x 11
   Margins not acceptable. Fig(s) _1-7, 8-10,13_
   _____ Top (T)   ____ Left (L)
   _____ Right (R)   ____ Bottom (B)
6. VIEWS. 37 CFR 1.84(h)
   REMINDER: Specification may require revision to correspond to drawing changes.
   Partial views. 37 CFR 1.84(h)(2)
   ____ Brackets needed to show figure as one entity.
   Fig(s) _____
   ____ Views not labeled separately or properly.
   Fig(s) _4,5,8,10,13_
   ____ Enlarged view not labeled separetely or properly.
   Fig(s) _____
7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)
   ____ Hatching not indicated for sectional portions of an object.
   Fig(s) _____
   ____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
   ____ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
9. SCALE. 37 CFR 1.84(k)
   ____ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.
   Fig(s) _____
10. CHARACTER OF LINES, NUMBERS, & LETTERS.
    37 CFR 1.84(i)
    ____ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).
    Fig(s) _____
11. SHADING. 37 CFR 1.84(m)
    ____ Solid black areas pale. Fig(s) _____
    ____ Solid black shading not permitted. Fig(s) _____
    ____ Shade lines, pale, rough and blurred. Fig(s) _____
12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.
    37 CFR 1.84(p)
    ____ Numbers and reference characters not plain and legible.
    Fig(s) _____
    ____ Figure legends are poor. Fig(s) _____
    ____ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)
    Fig(s) _____
    ____ English alphabet not used. 37 CFR 1.84(p)(2)
    Figs _____
    ____ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)
    Fig(s) _8-10,13_
13. LEAD LINES. 37 CFR 1.84(q)
    ____ Lead lines cross each other. Fig(s) _____
    ____ Lead lines missing. Fig(s) _____
14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
    ____ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
    ____ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
16. CORRECTIONS. 37 CFR 1.84(w)
    ____ Corrections not made from prior PTO-948 dated _____
17. DESIGN DRAWINGS. 37 CFR 1.152
    ____ Surface shading shown not appropriate. Fig(s) _____
    ____ Solid black shading not used for color contrast.
    Fig(s) _____

COMMENTS

REVIEWER _Jc_   DATE _9-8-99_   TELEPHONE NO. _703 305 8430_

ATTACHMENT TO PAPER NO. _17_